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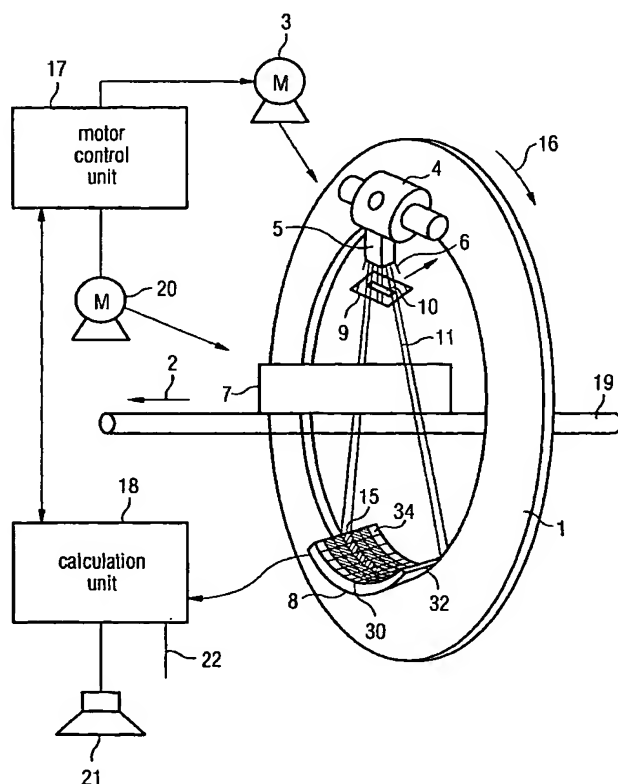
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damm 94, 20099 Hamburg (DE).</p> <p>(71) Applicant (for all designated States except DE, US):
KONINKLIJKE PHILIPS ELECTRONICS N. V.</p> | <p>[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).</p> <p>(72) Inventors; and
(75) Inventors/Applicants (for US only): VAN STEVEN-DAAL, Udo [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE). SCHLOMKA, Jens-Peter [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).</p> <p>(74) Agent: MEYER, Michael; Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).</p> <p>(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG.</p> |
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- (54) Title:** FAN-BEAM COHERENT-SCATTER COMPUTED TOMOGRAPHY



(57) Abstract: A reconstruction of data from CSCT data usually requires a long reconstruction time. According to the present invention, a filtered back-projection of CSCT data, wherein the CSCT data comprises a spectrum acquired by means of an energy resolving detector element is provided, wherein the filtered back-projection is performed along curved lines represented by the wave-vector transfer in the reconstruction volume. Advantageously, a reconstruction time may be reduced, while allowing for a good image quality.



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